

AMENDMENTS TO THE CLAIMS

1. - 25 (Canceled)

26. (Previously Presented) An isolated nucleic acid, wherein the sequence of the nucleic acid consists of:

- (a) SEQ ID NO: 4204050;
- (b) a DNA encoding the nucleic acid of (a), wherein the DNA is identical in length to (a); or
- (c) the complement of (a) or (b), wherein the complement is identical in length to the nucleic acid of (a) or (b).

27. - 30 (Canceled)

31. (Currently Amended) A vector comprising a heterologous sequence, wherein the heterologous sequence is selected from the group consisting of viral insert, wherein the viral insert consists of the nucleic acid of claim 26, and wherein the vector does not comprise any viral insert other than the nucleic acid of claim 26

- (a) SEQ ID NO: 4204050;
- (b) a DNA encoding (a), wherein the DNA is identical in length to (a); and
- (c) a complement of (a) or (b), wherein the complement is identical in length to the nucleic acid of (a) or (b).

32. (Canceled)

33. (Currently Amended) A probe comprising a heterologous sequence, wherein the heterologous sequence is selected from the group consisting of viral insert, wherein the viral insert consists of the nucleic acid of claim 26, and wherein the probe does not comprise any viral insert other than the nucleic acid of claim 26

- (a) SEQ ID NO: 4204050;
- (b) a DNA encoding (a), wherein the DNA is identical in length to (a); and
- (c) a complement of (a) or (b), wherein the complement is identical in length to the nucleic acid of (a) or (b).

34. (Canceled)

35. (Currently Amended) An isolated nucleic acid, wherein the sequence of the nucleic acid consists of :

- (a) SEQ ID NO: 117937;

- (b) a DNA encoding the nucleic acid of (a), wherein the DNA is identical in length to (a);
- (c) a sequence at least 80% identical to (a) or (b), wherein the nucleic acid is 19-24 nucleotides in length; or
- ~~(e)~~(d) the complement of (a)-~~or (b)~~-(c), wherein the complement is identical in length to the nucleic acid of (a)-~~or (b)~~-(c).

36. (Currently Amended) A vector comprising a heterologous sequence, wherein the heterologous sequence is selected from the group consisting of viral insert, wherein the viral insert consists of the nucleic acid of claim 35, and wherein the vector does not comprise any viral insert other than the nucleic acid of claim 35

- (a) SEQ ID NO: 117937;
- (b) a DNA encoding the nucleic acid of (a), wherein the DNA is identical in length to (a);
- (c) a sequence at least 80% identical to (a) or (b), wherein the nucleic acid is 19-24 nucleotides in length; and
- (d) the complement of (a)-(c), wherein the complement is identical in length to the nucleic acid of (a)-(c).

37. (Currently Amended) A probe comprising a heterologous sequence, wherein the heterologous sequence is selected from the group consisting of viral insert, wherein the viral insert consists of the nucleic acid of claim 35, and wherein the probe does not comprise any viral insert other than the nucleic acid of claim 35

- (a) SEQ ID NO: 117937;
- (b) a DNA encoding the nucleic acid of (a), wherein the DNA is identical in length to (a);
- (c) a sequence at least 80% identical to (a) or (b), wherein the nucleic acid is 19-24 nucleotides in length; and
- (d) the complement of (a)-(c), wherein the complement is identical in length to the nucleic acid of (a)-(c).

38. - 40. (Canceled)